Contents of Volume 42 · 1999

Abla M → Yamamoto T
Aguilar-Vega M → Herrera-Kao W
Aguilera C, Llanos A: Synthesis and properties of thermotropic compounds with two terminal mesogenic units and a central spacer. Homologous series of polymethylene-α,ω-bis[4-(4′-n-hexyloxybenzoyloxy)benzoate] (*Erratum*) 237
Ahn M-R → Lee J-Y
Ainser A → Zerroukhi A
Allen NS → Benavides R
Amemiya J → Kurita K
Amrani F → Bouslah N
Amrani F → Hammachin R
Anastasiou T → Campo CJ
Araki O, Yoshizawa T, Masuda T: Conformational relaxation in glassy state of poly(methyl methacrylate) in the course of cooling through the glass transition temperature 205
Arsac A → Zerroukhi A

Batsberg W → Jankova K
Becerra F → Treviño ME
Bello A → Laredo E
Benavides R, Edge M, Allen NS, Téllez MM: Polyene formation in poly(vinyl chloride) stabilised with pre-heated metal stearates 273
Bendiabdallah D → Bouslah N
Bero M, Dobrzyński P, Kasperczyk J: Application of zirconium(IV) acetylacetonate to the copolymerization of glycolide with ε-caprolactone and lactide 131
Besztercey G, Karger-Kocsis J, Szaplonczay P: Solid particle erosion of electrically insulating silicon and EPDM rubber compounds 717
Blundell DJ, Oldman RJ, Fuller W, Mahendrasingam A, Martin C, MacKerron DH, Harvie JL, Riekel C: Orientation and crystallisation mechanisms during fast drawing of poly(ethylene terephthalate) 357
Bongiovanni R → Sangermano M
Bonnet M, Buhk M, Petermann J: Thermo-mechanical properties of the blend syndiotactic/atactic polystyrene after crystallization of the syndiotactic polystyrene 353
Bottino FA, Di Pasquale G, Pollicino A, Scalia L: Synthesis and characterization of new polyamides and copolyamides containing 6,6′-sulfonediquinoline units 519
Bouchal K → Ilavský M
Bouslah N, Haddadine N, Bendiabdallah D, Amrani F: Study of the miscibility of poly(ethyl methacrylate-*co*-4-vinylpyridine)/poly(styrene-*co*-cinnamic acid) blends 701
Brito A → Tagle LH
Brittain W → Li Y
Bubeníková Z → Ilavský M
Buhk M → Bonnet M
Bui C, Lassau C, Charleux B, Vairon J-P, Tintiller P, Le Hen-Ferrenbach C: Application of a non ionic amphiphilic maleic diester as polymerizable surfactant in free-radical emulsion polymerization 287
Bumchan M, Seon-Ho K, Hyun N, Soo-Han K: An NMR study on sequence distributions of block copolymers of poly(butylene terephthalate) and poly(tetramethylene glycol) 587
Byun D-J, Shin D-K, Kim SY: Chain transfer reactions in metallocene catalyzed polymerization of allylbenzene 301
Byun D-J, Shin D-K, Liu J, Kim SY: Polymerization of allylbenzene with metallocene catalysts 265

Campana Filho SP → Signini R
Campo CJ, Anastasiou T, Uhrich KE: Polyanhydrides: the effects of ring substitution changes on polymer properties 61
Cares C → Tagle LH
Charleux B → Bui C
Chen T → Qi Y
Chen W-X → Gu T
Chen X → Jankova K
Chen X → Li M
Chisholm MS → Li Y
Choi K-Y → Hong Y-T
Choi K → Yim CI
Choi SJ → Jeong JK
Chujo Y → Matsumi N
Chujo Y → Miyata M
Chujo Y → Naka K
Chun HJ → Kim CH
Cohen Addad JP, Panine P: Pore generation in asymmetric polymeric membranes. Correlation with solvent mobilities 345
Cui G → Ji T

da Silveira NP → Magnago RF
Dhanalakshmi K, Sundararajan G: Synthesis of conjugated polyphenylacetylenes with redox active ferrocenyl end-groups 683
DaRocha CM, Patruyo LG, Ramírez NE, Müller AJ: Porous media flow of poly(ethylene oxide)/sodium dodecyl sulfate mixtures 109
Day GM, Jackson WR, Simon GP, Komitov L: Electro-optic studies on novel chiral liquid

crystalline polysiloxanes with the N* phase 603
de Vos SC, Huhn W, Rieger B, Möller M: Novel blends of alternating propene-carbon monoxide copolymers and styrenic copolymers 611
Deng H → Li Y
Di Pasquale G → Bottino FA
Diaz FR → Tagle LH
Ding M → Tong Y
Ding Y, Padias AB, Hall HK Jr: Azoxyarylene compounds and polymers by a copper-pyridine catalyzed oxidative coupling reaction 689
Dobrzyński P → Bero M
Dotcheva D, Tsvetanov CB: Thermosensitive networks based on high molecular weight polyoxyethylene and *N*-isopropylacrylamide 709
Du F-S → Liu X-Q
Dušek K, Šomvársky J, Smrčková M, Simonsick WJ, Wilczek L: Role of cyclization in the degree-of-polymerization distribution of hyperbranched polymers. Modelling and experiments 489

Edge M → Benavides R
Ekinci E: Preparation and sensor properties of poly(*o*-toluidine) film 693
Endo T → Nomura R

Fährich J → Ilavský M
Feast WJ, Peace RJ, Sage IC, Wood EL: Poly(4-vinyltriphenylamine): synthesis and application as a hole transport layer in light-emitting diodes 167
Ferrer-Balas D, Maspoch ML, Martinez AB, Santana OO: On the essential work of fracture method: Energy partitioning of the fracture process in iPP films 101
Fuentes L → Rivas BL
Fujimori K → Ha NTH
Fujiwara H, Ishida T, Taniguchi N, Wada S: Mechanochemical synthesis and characterization of poly(vinyl chloride)-*block*-poly(vinyl alcohol) copolymers by ultrasonic irradiation 197
Fuller W → Blundell DJ
Furue H → Kim EJ

Gao T → Liu Y
Grimau M → Laredo E
Gu T, Chen W-X, Xu Z-D: Preparation and characterization of the fullerenated polymers 191

Ha NTH, Fujimori K, Tucker DJ, Henry PC: Structural evidence for a complex participation in the alternating copolymerization of citraconic (α-methylmaleic) anhydride with styrene in *N,N*-dimethylformamide 309
Ha WS → Lyoo WS
Haddadine N → Bouslah N
Hall HK Jr → Ding Y
Hammachin R, Amrani F, Prud'homme RE, Pinoit D: Dielectric relaxation study of poly(styrene-*co*-4-vinylbenzoic acid)/poly (ethyl methacrylate-*co*-4-vinylpyridine) blends 595
Han SG → Lee H-J
Harvie JL → Blundell DJ
Henry PC → Ha NTH
Hernández-Sánchez F, Olayo R, Manzur A: Effect of NR and EPDM on the rheology of HDPE/PP blends 481
Herrera-Kao W, Aguilar-Vega M: Storage modulus changes with temperature in poly(vinyl alcohol), PVA/poly (acrylid acid), PAA, blends 449
Hibi S → Nakanishi E
Higashimura H → Tonami H
Hong SI → Hwang YH
Hong SI → Kim JL
Hong Y-T, Kim SC, Choi K-Y: Synthesis and properties of poly(amide-imide)s with different microstructures based on trimellitimide and 4,4′-diphenyl ether 661
Horinaka J-i, Matsumura Y, Yamamoto M: Dynamic fluorescence quenching precedent to thermally-induced phase separation of poly(ethoxyethyl vinyl ether) aqueous solution 85
Huhn W → de Vos SC
Hurst J → Khunová V
Hwang YH, Kim JL, Park SY, Hong SI: Synthesis and properties of nonlinear optical chromophores and polymers containing 6-nitroquinoline as π-electron acceptor 175
Hyun N → Bumchan M

Ihata O, Kato T: Hydrogen-bonded polymer complexes of macrocycles containing a pyridyl moiety and carboxyl-functionalized polystyrenes. An approach to H-bonded rotaxanes 497
Ilavský M, Bubeníková Z, Bouchal K, Nedbal J, Fährich J: Violation of the power-law dynamic mechanical behaviour at the gel point threshold in non-stoichiometric epoxide systems 465
Inoue T → Sugimoto T
Ishida T → Fujiwara H
Ishii S → Zhou M

Jackson WR → Day GM
Jankova K, Truelsen JH, Chen X, Kops J, Batsberg W: Controlled/"living" atom transfer radical polymerization of styrene in the synthesis of amphiphilic diblock copolym-

ers from a poly(ethylene glycol) macroinitiator 153
Jeong JK, Choi SJ, Rhee TH, Yang NC, Suh DH: A novel π-conjugated polymer: poly(3,4-bis(phenylene)-3-cyclobutene-1,2-dione) 183
Jeong JK, Choi SJ, Rhee TH, Yang NC, Suh DH: Synthesis and optical properties of poly(phenylenevinylene) modified with 3,4-bis(phenylene)-3-cyclobutene-1,2-dione moiety 559
Jho JY → Yim CI
Ji T, Zhang J, Cui G, Li Y: The synthesis of novel aromatic polyamides with precisely pendant dendritic blocks 379
Jo B-W → Nah Y-H

Kajihara T → Kishimoto Y
Kamiya M → Nakanishi E
Karger-Kocsis J → Besztercey G
Karger-Kocsis J → Mouzakis DE
Kasperczyk J → Bero M
Kato S → Kishimoto Y
Kato T → Ihata O
Kawakami Y → Komuro K
Kawanami Y → Kim EJ
Khunová V, Hurst J, Liauw C: Reactive processing of particulate filled polymers: *m*-phenylene bismaleimide modified polyethylene/magnesium hydroxide composites 457
Kim CH, Chun HJ: A synthesis of *O*-diethylaminoethyl chitosan and its binding ability of cholate and deoxycholate anion *in vitro* 25
Kim EJ, Park OO, Kawanami Y, Furue H, Kobayashi S: Hydrogenation of poly(vinyl cinnamate) thin layer 149
Kim J → Nah Y-H
Kim J-S → Nah Y-H
Kim JH → Lyoo WS
Kim JK → Kim JL
Kim JL → Hwang YH
Kim JL, Kim JK, Hong SI: Synthesis and properties of poly[2,6-(*p*-phenylvinyl)-4-(4′-octyloxybiphenyl-4-yl)quinoline] 511
Kim SC → Hong Y-T
Kim SCH → Min HS
Kim SY → Byun D-J
Kishimoto Y, Kajihara T, Kato S: Study on the alcoholysis of aromatic polyesters and related esters using a high-pressure calorimeter 295
Kobayashi S → Kim EJ
Kobayashi S → Tonami H
Komarudin D → Yamamoto T
Komitov L → Day GM
Komuro K, Kawakami Y: Synthesis and characterization of side-chain liquid crystalline polycarbosilanes with siloxane spacer 669
Kops J → Jankova K
Koremoto T → Sugimoto T
Kurita K, Amemiya J, Mori T, Nishiyama Y: Comb-shaped chitosan derivatives having oligo(ethylene glycol) side chains 387
Kurokawa E → Yamamoto T

Laredo E, Bello A, Grimau M: The analysis of TSDC peaks with a KWW relaxation function or a distribution of relaxation times in polymers 117
Lassau C → Bui C
Le Hen-Ferrenbach C → Bui C
Lee B-L → Yamamoto T
Lee DC → Lee KH
Lee DC → Noh MW
Lee H-J, Lee M-H, Oh M-C, Han SG: Synthesis and properties of nonlinear optical polymers based on poly(ether imides) for electrooptical devices 403
Lee J → Lyoo WS
Lee J-Y, Ahn M-R: Synthesis of poly(ethyl vinyl ethers) containing two dipolar electronic systems and their properties 237
Lee KH, Lee DC: Synthesis and characterization of poly(organophosphazenes) bearing Schiff's base linkages 543
Lee KJ → Yim CI
Lee M-H → Lee H-J
Lee SG → Lyoo WS
Lee TS, Yang C: Synthesis of Congo Red linked with alkyl amide polymer and its optical ion-sensing property 655
Lee Y → Nah Y-H
Leitner MB: Reversible redox behaviour of two electroactive polymethacrylates 567
Li CS, Wong YH, Wong YW, Szeto YS: Triplet energy transport of liquid crystalline poly(dodecene sulphone)s 313
Li F-M → Liu X-Q
Li M, Qiu H, Chen X: Side chain liquid crystalline elastomers I. Phase behavior of their precursors 77
Li M, Zhou E, Zhao X, Xu J: Corona poling of liquid crystalline polymers with nitroazobenzene side chains 575
Li Y, Deng H, Brittain W, Chisholm MS: Polymerization of methyl methacrylate using organocalcium compounds 635
Li Y → Ji T
Li Y → Tong Y
Li Z-C → Liu X-Q
Liauw C → Khunová V
Liaw D-J, Tsai C-H: Radical polymerization of methacryloyl isocyanate containing 1-adamantanol 373
Liou G-S → Yang C-P
Liu J → Byun D-J
Liu X-Q, Li Z-C, Du F-S, Li F-M: Ring-opening copolymerization of α-chloromethyl-α-

methyl-β-propiolactone with 1,3-trimethylene carbonate 649
Liu Y, Zhu Z, Gao T, Tan H: The effect of gelation sequence on the mechanical properties of plasticized polyurethane-poly(glycidyl methacrylate) simultaneous interpenetrating network 93
Llanos A → Aguilera C
López RG → Treviño ME
Lotti N → Righetti MC
Lyoo WS, Lee SG, Ha WS, Lee J, Kim JH: Effect of copolycondensation temperature on the reactivity ratios of bis(4-hydroxybutyl) terephthalate and bis(2-hydroxyethyl) terephthalate 9

MacKerron DH → Blundell DJ
Madera-Santana TJ, Vázquez Moreno F: Graft polymerization of methyl methacrylate onto short leather fibers 329
Magnago RF, Merlo AA, Vollmer AF, Mauler RS, Vargas F, da Silveira NP: Synthesis, mesomorphic properties and light scattering of polyacrylates liquid crystals 551
Mahendrasingam A → Blundell DJ
Malucelli G → Sangermano M
Manzur A → Hernández-Sánchez F
Marculescu B → Zerroukhi A
Marstokk O, Roots J: Synthesis and characterisation of hydrophobically modified poly(vinyl alcohol) 527
Martin C → Blundell DJ
Martinez AB → Ferrer-Balas D
Maruyama K → Tsubokawa N
Maspoch ML → Ferrer-Balas D
Masuda T → Araki O
Masuda T → Sugimoto T
Matsumi N → Miyata M
Matsumi N, Naka K, Chujo Y: Synthesis of hydroboration copolymer of TCNQ and formation of polymer charge transfer complex therefrom 33
Matsumura Y → Horinaka J-i
Matsuno T → Nomura R
Maturana HA → Rivas BL
Mauler RS → Magnago RF
Mendizábal E → Treviño ME
Merlo AA → Magnago RF
Mibae S → Miura Y
Mignard N → Zerroukhi A
Min HS, Kim SCH: Fracture toughness of polysulfone/epoxy semi-IPN with morphology spectrum 221
Miura Y, Mibae S, Moto H, Nakamura N, Yamada B: Controlled radical polymerization of styrene with an oxazolidinyl-*N*-oxyl stable free radical 17
Miyata M, Matsumi N, Chujo Y: Synthesis of π-conjugated organoboron polymers by haloboration-phenylboration polymerization of aromatic diynes 505
Möller M → de Vos SC
Mori T → Kurita K
Moto H → Miura Y
Mouzakis DE, Karger-Kocsis J: Essential work of fracture: Application for polymers showing ductile-to-brittle transition during fracture 473
Müller AJ → DaRocha CM
Munari A → Righetti MC

Nah Y-H, Kim J-S, Jo B-W, Kim J, Lee Y: Effects of contact surface area of chains on the mechanical properties of poly (methyl methacrylate-*co*-acrylate) ionomers 213
Naka K → Matsumi N
Naka K, Uemura T, Chujo Y: Synthesis of polymers having 1,3-cyclobutanedione unit in the main chain by cycloaddition polymerization of bisketene 367
Nakamura N → Miura Y
Nakanishi E, Sugimoto H, Kamiya M, Hibi S: Interaction between anionic molecule and colored copolypeptide microspheres 395
Nakanishi H → Sarkar A
Nedbal J → Ilavský M
Nishiyama Y → Kurita K
Noguchi H → Zhou M
Noh MW, Lee DC: Synthesis and characterization of PS-clay nanocomposite by emulsion polymerization 619
Nomura R, Matsuno T, Endo T: Synthesis and polymerization of a self-condensable macromonomer 251
Nomura R → Sugimoto T

Oguchi T → Tonami H
Oh M-C → Lee H-J
Okada S → Sarkar A
Okazaki M → Tsubokawa N
Olayo R → Hernández-Sánchez F
Oldman RJ → Blundell DJ
Osakada K → Yamaguchi I

Padias AB → Ding Y
Pan C, Yang B: Syntheses and characterizations of side-chain liquid crystalline poly(glycidyl ether)s with biphenyl mesogenic group 675
Panine P → Cohen Addad JP
Park OO → Kim EJ
Park SY → Hwang YH
Patruyo LG → DaRocha CM
Peace RJ → Feast WJ
Peralta RD → Treviño ME
Peric IM → Rivas BL
Petermann J → Bonnet M
Pezzin G → Righetti MC

Pinoit D → Hammachin R
Pintat S → Stevels WM
Pollicino A → Bottino FA
Priola A → Sangermano M
Prud'homme RE → Hammachin R
Puig JE → Treviño ME

Qi Y, Chen T, Xu J: Synthesis of cyclic precursors of poly(ether ether ketone) 245
Qiu H → Li M

Ramírez NE → DaRocha CM
Rhee TH → Jeong JK
Rieger B → de Vos SC
Riekel C → Blundell DJ
Righetti MC, Lotti N, Munari A, Pezzin G: Poly(2,6-dimethyl-1,4-phenylene oxide)/polystyrene blends: thermodynamic interactions from glass transition data 441
Rivas BL, Peric IM, Maturana HA, Fuentes L: Sorption behavior of environmentally relevant metal cations of 4-vinylpyridine based resins 337
Rivas BL, Sanhueza E: Novel non-alternating copolymers synthesized by spontaneous copolymerization of *p*-chlorophenylmaleimide with 2-methyl-2-oxazoline 281
Roots J → Marstokk O
Roy S: Calculation of heat of polymerisation: group-contribution method 229

Sage IC → Feast WJ
Sangermano M, Bongiovanni R, Malucelli G, Priola A: Cationic photopolymerisation of divinylethers systems containing hydroxyvinylethers 641
Sanhueza E → Rivas BL
Santana OO → Ferrer-Balas D
Sarkar A, Talwar SS, Okada S, Nakanishi H: Chemical and electrochemical polymerisation of diacetylenes containing thienyl moiety as the side group 69
Scalia L → Bottino FA
Scherzer T: Rheo-optical fourier transform infrared spectroscopy of diol-modified diglycidyl ether of bisphenol-A epoxy resins 579
Seon-Ho K → Bumchan M
Shimizu T → Yamamoto T
Shin D-K → Byun D-J
Shirai Y → Tsubokawa N
Signini R, Campana Filho SP: On the preparation and characterization of chitosan hydrochloride 159
Simon GP → Day GM
Simonsick WJ → Dušek K
Slaghek TM → Stevels WM
Smrčková M → Dušek K
Šomvársky J → Dušek K
Soo-Han K → Bumchan M
Stevels WM, Pintat S, Slaghek TM: Coupling reactions of activated oligo(ε-caprolactone)s 257
Sugimoto H → Nakanishi E
Sugimoto T, Koremoto T, Inoue T, Nomura R, Masuda T: Synthesis and properties of poly(phenylacetylene)s having dialkylamino groups 55
Suh DH → Jeong JK
Sundararajan G → Danalakshmi K
Szaplonczay P → Besztercey G
Szeto YS → Li CS

Tagle LH, Diaz FR, Cares C, Brito A: Polymerization by phase transfer catalysis. 24. Synthesis of condensation polymers derived from halogenated diphenol-amides with the amide group in the side chain 627
Takayanagi M → Zhou M
Talwar SS → Sarkar A
Tan H → Liu Y
Taniguchi N → Fujiwara H
Téllez MM → Benavides R
Tintiller P → Bui C
Tonami H, Uyama H, Oguchi T, Higashimura H, Kobayashi S: Synthesis of a soluble polyphenol by oxidative polymerization of bisphenol-A using iron-salen complex as catalyst 125
Tong Y, Li Y, Ding M: Synthesis of aromatic polyimides in DMAc containing large amount of water and the properties thereof 47
Treviño ME, López RG, Peralta RD, Becerra F, Mendizábal E, Puig JE: Polymerization of vinyl acetate in microemulsions stabilized with a mixture of dodecyltrimethylammonium bromide and didodecyldimethylammonium bromide 411
Truelsen JH → Jankova K
Tsai C-H → Liaw D-J
Tseng N-W → Yang C-P
Tsubokawa N, Shirai Y, Okazaki M, Maruyama K: A novel gas sensor from crystalline polymer-grafted carbon black: responsibility of electric resistance of composite from crystalline polymer-grafted carbon black against solvent vapor 425
Tsvetanov CB → Dotcheva D
Tucker DJ → Ha NTH

Uemura T → Naka K
Uhrich KE → Campo CJ
Uyama H → Tonami H

Vairon J-P → Bui C
Valderruten NE → Zuluaga F
Vargas F → Magnago RF
Vázquez Moreno F → Madera-Santana TJ
Vollmer AF → Magnago RF

Wada S → Fujiwara H
Wilczek L → Dušek K
Wong YH → Li CS
Wong YW → Li CS
Wood EL → Feast WJ

Xu J → Li M
Xu J → Qi Y
Xu Z-D → Gu T

Yamada B → Miura Y
Yamaguchi I, Osakada K, Yamamoto T: Ru(0) complex catalyzed polyaddition. New synthesis of poly(alkylenebenzoxazole) and poly(alkylenebenzimidazole) 141
Yamamoto M → Horinaka J-i
Yamamoto T, Abla M, Shimizu T, Komarudin D, Lee B-L, Kurokawa E: Temperature dependent electrical conductivity of *p*-doped poly (3,4-ethylenedioxythiophene) and poly(3-alkylthiophene)s 321
Yamamoto T → Yamaguchi I
Yang B → Pan C
Yang C-C → Yang C-P
Yang C → Lee TS
Yang C-P, Liou G-S, Yang C-C, Tseng N-W: Synthesis and properties of new poly (amide-imide)s based on 2,5-bis(trimellitimido)toluene 1
Yang NC → Jeong JK
Yim CI, Lee KJ, Jho JY, Choi K: Wear resistance of some modified ultra-high molecular weight polyethylenes and its correlation with tensile properties 433
Yoshida Y → Zhou M
Yoshizawa T → Araki O

Zerroukhi A, Ainser A, Arsac A, Mignard N, Marculescu B: Synthesis of a new oxazoline monomer and free radical grafting of this monomer onto ABS 535
Zhang J → Ji T
Zhao X → Li M
Zhou E → Li M
Zhou M, Takayanagi M, Yoshida Y, Ishii S, Noguchi H: Enzyme-catalyzed degradation of aliphatic polycarbonates prepared from epoxides and carbon dioxide 419
Zhu Z → Liu Y
Zuluaga F, Valderruten NE: The ambient temperature synthesis and characterization of bile acid polymers 41

Errata

Aguilera C, Llanos CA: Synthesis and properties of thermotropic compounds with two terminal mesogenic units and a central spacer. Homologous series of polymethylene-α,ω-bis[4-(4′-n-hexyloxybenzoyloxy)benzoate] 364

Llanos CA → Aguilera αC

Indexed in *Current Genetics*

Subject Index

ABS 53
Acrylamide 527
2-Acrylamidoglycolic acid 337
Adamantane 373
1-Adamantanol 373
AIBN 373
Alcoholysis 295
Alkaline organic salts 709
Alkylhalide 527
Allylbenzene, metallocene catalysis 265, 301
Amperometric biosensor 693
N-Arylhydroxylamines 689
Atom transfer radical polymerization 153
ATRP 153
Azoxyarylene compounds 689

Benzyltriethylammonium chloride 627
BHBT 9
BHET 9
Bile acid polymers 41
Bile salts adsorption 25
Biodegradable materials 61
Biodegradation 419
Biopolymers 497
Biosensor, amperometric 693
Bis(2-hydroxyethyl) terephthalate 9
1,4-Bis(2′-thienyl)butadiyne 69
1,4-Bis(3′-thienyl)butadiyne 69
Bis(4-hydroxybutyl) terephthalate 9
Bis(aminoketone) 511
Bis(ketomethylene) 511
Bis(pentamethylcyclopentadienyl)calcium 635
3,4-Bis(phenylene)-3-cyclobutene-1,2-dione 559
2,5-Bis(trimellitimido)toluene 1
Biscyclopentadienylcalcium 635
Bisketene 367

Bisphenol-A 125
Boron 505
Bromodiphenylborane 505
n-Butylacrylate 287

ε-Caprolactone 131
Carbon black, crystalline polymer-grafted 425
Carbon monoxide 611
Cartilage 433
Charge transfer complex 33
Chelate 337
Chelating resins 337
Chemotherapeutic drugs 61
Chitin 159, 387
Chitosan 159, 387
–, *O*-diethylaminoethyl chitosan 25
Chitosan hydrochloride 159
α-Chloromethyl-α-methyl-β-propiolactone 649
p-Chlorophenylmaleimide 281
2-Chloropropionyl chloride 153
Cholate 25
Cholestanyl pentenoic ester 313
Cholesterol 25
Chromophores, nonlinear optical 175
Citraconic (α-methylmaleic) anhydride 309
Compatibilizer 535
Conductivity 321
Conductors 33
Congo red 655
Copoly(L-glutamic acid-*co*-L-Trp) 395
Copolyamides, 6,6′-sulfonediquinoline 519
Copolypeptide microspheres 395
Copolystyrenes 497
Copper-pyridine catalyst 689
Crack initiation 101
Crown ethers 497
Crystallisation 357
Cyclization 489
1,3-Cyclobutanedione 367
Cyclohexane 373
1,4-Cyclohexanedicarbonyl chloride 367

DBAPA 55
DDENT 101
DEAE-chitin 25
DEAE-chitosan 25
DEAPA 55
Degradation 419
Dendrimers 251, 379, 489
Deoxycholate 25
DGEBA 221, 465, 579
Diacetylenes, thienyl moiety 69
Diacids, aromatic 627
p-(*N,N*-Dialkylamino)phenylacetylenes 55
3,3′-Diamino-4,4′dihydroxybiphenyl 141
3,3′-Diaminobenzidine 141
Diaminodiphenylsulfone 221
Diamond lattice 373
Dibromide monomer 183
N-(2,6-Dibromo-4-nitrophenyl)-4,4-bis(4-hydroxyphenyl)-pentanamide 627
4,4′-Dicarboxydiphenyl sulfone 519
1,3-Dichlorotetrabutyl-distannoxane 649
Dicyanotetrafluorobenzene 33
Didodecyldimethylammonium bromide 411
Dielectric relaxation 117
Diethylaminoethyl (DEAE)-chitosan 25
Diethyleneglycoldivinylether 641
2,2-Dihydroxymethylbutanol 675
Diimide-diacid 1
N-(2,6-Diiodo-4-nitrophenyl)-4,4-bis(4-hydroxyphenyl)-pentanamide 627
Diisopropyl carbodiimide 41
Dimethyl amino pyridine 41
Dimethylacetamide 519
N,N′-Dimethylacrylamide 337
N,N′-Dimethylactamide 47
N,N′-Dimethylformamide 309
Diodes 559
–, light-emitting 167
Diol-modified diglycidyl ether 579
α,ω-Diols 579
Diphenol-amides, halogenated 627
N,N′-Diphenyl-N,N′-ditolylbenzidine 167
4,4′-Diphenylether 661
Divinylethers systems, hydroxyvinylethers 641
α,ω-Diyne 141
Diynes, aromatic 505
Dodecyltrimethylammonium bromide 411
Ductile-to-brittle transition 473
Dyes 655
Dynamic fluorescence quenching 85

Elastomers 587
Electroluminescence 559
π-Electron acceptor 175
Electrooptic modulators 403
Emulsion polymerization 619
Enzyme electrode 693
EPDM 481
– rubbers 717
Epoxides 419
–, non-stoichiometric 465
Epoxy resins, bisphenol-A 579
Erosion tests 717
Essential work of fracture 101, 473
Ethyl methacrylate-*co*-4-vinylpyridine 595
4-Ethylbenzoic acid 497
Ethylene/propylene/diene 481
– – – rubber 717
EWF method 101

Ferrocene, redox-active 683
Fibers 329
Fillers 329
Flame retardant 457
Flow 109
Fracture, essential work of 473

Fracture toughness 221
Free radical grafting 535
Friedländer quinoline synthesis 511
FTIR spectroscopy 579
Fullerenes 191

GC-method 229
Gels 709
Glucose 693
Glucose oxidase 693
Glycolide 131
Group-contribution method 229

Haloboration-phenylboration polymerization 505
HDPE/PP 481
Heat of polymerization 229
Heteroaromatic π-conjugated polymers 559
High-pressure calorimeter 295
Hoffmann degradation 527
Hole transport layer 167
Homopolymers 551
Human serum albumin 395
Hydroquinone 245
Hydroxyalkylvinylether 641
Hyperbranched polymers 489
Hypercholesterolaemia 25

Implantable devices 61
Implantable drug delivery systems 61
Incompatibility 353
Incompatible polymers 481
Indicator dye 655
Insulators, outdoor 717
Interpenetrating polymer network 93
Ion-exchange 337
Ionomers 213
iPP films, fracture 101
Iron-salen complex 125
N-Isopropylacrylamide 709

Jet erosion tests 717

Ketenes 367
KWW relaxation 117

Lactide 131
LCE 77
LCST-type phase separation 85
Leather fibers 329
LEDs 559
–, organic 167
Lipase 419
Liquid crystalline polymers (LCP) 551, 575
Luminescence 313

Macrocycles 497
Macromonomer, self-condensable 251
Macrovoids 345
Maleic anhydride 309
Maleic diester, non-ionic amphiphilic 287
Melt flow rate 457
Membranes 345
Metal stearates 273
Metal-metal interaction 683
Metallocene/methylaluminoxane 265
Metallocene catalysts 301
Metathesis polymerization 683
Methacrylate ionomers 213
Methacryloyl isocyanate, 1-adamantanol 373
2-[4-(6-Methacryloyloxyhexa-1,6.diyloxy)phenylazo]-anthraquinone 567
2-(4-Methoxyphenylazo)anthraquinone 567
Methyl methacrylate 329, 635
– –, short leather fibers 329
Methyl 5-nitro-2-(2′-vinyl-oxyethoxy)benzylidenecyanoacetate 237
2-Methyl-2-oxazoline 281
4,4′-Methylenedianiline 519
Microemulsion polymerization 411
MMA 329, 635
Monoaldehydes 387
Monovinylether 641

Nanocomposites 619
Natural rubber 481
Nickel, zerovalent 183
5-Nitro-2-(2′vinyloxyethoxy)benzylidenemalononitrile 237
Nitroazobenzene 575
N-6-(4-((4′-Nitrophenyl)azo)phenyl)oxy)hexyl diethanolamine 77
6-Nitroquinoline 175
NLO chromophores 175, 403
NLO polymers 237, 403, 575
– –, methacrylate 175
Non-alternating copolymers 281
Novolac 579
NR 481

α-Olefins 611
Oligo(ε-caprolactone)s, activated 257
Oligo(ethylene glycol) 387
One-dimensional molecular wire 683
Organoboron polymers 505
Organocalcium 635
Outdoor insulators 717
Oxazolidinyl-*N*-oxyl stable free radical 17
Oxazoline monomer 535
Oxidoreductase 125
7-Oxo-15-azadispirol[5.2.5.1]pentadecanyl-*N*-oxyl 17
4,4′-Oxydianiline 519

PAA 449
PAIs 1
PBT 9, 473
PEEK 245
PEG 153

PEO 109
PEO/SDS 109
PEPC (Poly(epoxy propyl carbazole), fullerenated 191
Percec-type dendritic fragments 379
Peroxidase 125
PET 9,295,357
Phase transfer catalysis 627
N-Phenyl(4,4′difluorodiphenyl)ketimine 245
m-Phenylene bismaleimide 457
Phosgene 627
Photoinitiators 641
Photon correlation spectroscopy 551
Photopolymerisation 641
Photorefractive polymers 575
Pin-on-disk wear tester 433
PMMA 205, 213, 329, 635
Poly(3-alkylthiophene)s 321
Poly(3,4-bis(phenylene)-3-cyclobutene-1,2-dione) 183
Poly(ε-caprolactone)s 117, 257, 425
Poly(2,6-dimethyl-1,4-phenylene oxide)/polystyrene 441
Poly(3,4-ethylenedioxythiophene), *p*-doped 321
Poly (*N*-isopropylacrylamide) 709
Poly(4-vinyltriphenylamine) 167
Poly(acrylic acid) 449
Poly(alkylenebenzimidazole) 141
Poly(alkylenebenzoxazole) 141
Poly(amide-carbonate)s 627
Poly(amide-ester)s 627
Poly(amide-imide)s 1, 661
Poly(amide-thiocarbonate)s 627
Poly(azoxy arylene) 689
Poly(benzimidazole) 141
Poly(benzoxazole) 141
Poly[1,3-bis(*o*-carboxyphenoxy)propane anhydride] 61
Poly[1,6-bis(*o*-carboxyphenoxy)hexane anhydride] 61
Poly[2,2-bis(hydroxymethyl)propanoic acid] 489
Poly(butylene succinate) 419
Poly(butylene terephthalate) 9, 473, 587
Poly(DEAPA) 55
Poly(dodecene sulphone)s 313
Poly(ether ether ketone) 245
Poly(ether imides) 403
Poly(ethoxyethyl vinyl ether) 85
Poly(ethyl methacrylate-*co*-4-vinylpyridine) 701
Poly(ethyl vinyl ethers) 237
Poly(ethylene adipate) 425
Poly(ethylene glycol) 153
Poly(ethylene 2,6-naphthalenedicarboxylate) 295
Poly(ethylene oxide) 287
Poly(ethylene oxide)/sodium dodecyl sulfate 109
Poly(ethylene terephthalate) 9, 295, 357
Poly(glycidyl ether)s, biphenyl mesogenic group 675
Poly(glycidyl mechacrylate) 93
Poly(glycolide-co-ε-caprolactone) 131
Poly(glycolide-co-lactide) 131
Poly(methyl methacrylate) 635
–, conformational relaxation 205
Poly(methyl methacrylate-*co*-acrylate), ionomers 213
Poly(*o*-toluidine) 693
Poly(organophosphazenes) 543
Poly(oxypropylene)diamine 465
Poly(phenylacetylene)s, dialkylamino groups 55
Poly(phenylenevinylene) 559
–, π-conjugated 183
Poly[2,6-(*p*-phenylvinyl)-4-(4′-octyloxybiphenyl-4-yl)quinoline] 511
Poly(styrene-*co*-acrylonitrile 611
Poly(styrene-*co*-cinnamic acid) 701
Poly(styrene-*co*-maleic anhydride 611
Poly(styrene-*co*-4-vinylbenzoic acid)/poly(ethyl methacrylate-*co*-4-vinylpyridine 595
Poly(tetrahydrofuran) 251
Poly(tetramethylene glycol) 587
Poly(vinyl alcohol) 197, 449, 527
Poly(vinyl chloride) 273
Poly(vinyl chloride)-*block*-poly(vinyl alcohol) 197
Poly(vinyl cinnamate) 149
Poly(vinyl ethers) 237
Polyacetylenes 55
Polyacrylates liquid crystals 551
Polyacrylonitrile 345
Polyaddition, Ru(0) complex catalyzed 141
Polyallylbenzenes 301
Polyamic acids 47
Polyamide, aromatic 379
–, congo red-based 655
–, 6,6′-sulfonediquinoline 519
Polyanhydrides 61
Polyaromatics, enzymatic syntheses 125
Polycarbonates 419
–, aliphatic 419
Polycarbosilanes 669
Polydispersity 17
Polyene 273
Polyesters 9
–, aliphatic 649
–, side chain liquid crystalline 77
Polyetherimide 345
Polyethylene 425, 481
Polyethylene/magnesium hydroxide 457
Polyethylenes, ultra-high molecular weight 433
Polyimides, aromatic 47
Polyketones 611
Polymer-clay nanocomposite 619
Polymers, fullerenated 191

Polymethacrylates, electroactive 567
Polymethylene-α,ω-bis[4-(4′-*n*-hexyloxybenzoyloxy)benzoate] 365
Polyolefin composites 457
Polyolefins 265
Polyoxyethylene 709
Polyphenol, soluble 125
Polyphenylacetylenes 683
Polyphosphazene 543
Polypropylene 481
Polyquinoline 511
Polysaccharides 159, 387
Polysiloxanes 77
–, chiral liquid crystalline 603
Polystyrene 441, 611
–, carboxyl-functionalized 497
–, syndiotactic/atactic 353
Polystyrene-Na^+-montmorillonite 619
Polysulfone/epoxy semi IPN 221
Polythiophenes 321
–, π-conjugated 321
Polyurethane 93
Polyurethane-poly(glycidyl methacrylate) 93
Propagation fracture 101
Propanesulfone 527
Propene-carbon monoxide 611
PS-clay nanocomposite 619
$Pt(COD)Cl_2$ 669
PVA 449, 527
PVC 273

Resins, 4-vinylpyridine based 337
Rhizopus arrhizus 419
Rhizopus delemar 419
Ring-opening polymerization 649

Sandblasting 717
Schiff's base linkages 543
SCLCPs 675
Sebacoyl chloride 655
Semi-IPN's 221
Semiconductors 575
Side chain liquid crystalline elastomers 77
Silacyclobutanes 669
Silicone 717
Silicone rubber compounds 717
Siloxane spacer 669
Simultaneous interpenetrating network 93
Sodium 2-bromoisobutyrate 251
Sodium cyanoborohydride 387
Stearates 273
Step polyaddition 489
Styrene 287, 309, 497
–, controlled/"living" atom transfer radical polymerization 153
–, oxazolidinyl-*N*-oxyl stable free radical 17
Styrene-*co*-4-vinylbenzoic acid 595
Styrenic copolymers 611
4,4′-Sulfonyldianiline 519
Surfactants 287
Synchrotron radiation 357

Tacticity 635
TCNQ, hydroboration copolymer 33
TEMPO 17
Tensile rupture 433
Tetrachloroethane 505
Thermally stimulated depolarization currents 117
Thermoplastics 245
–, degradable 649
Thermosets, toughening 221
Thermotropic liquid crystals 551
Thickeners 527
p-Toluenesulfonic acid 41
o-Toluidine 693
Transition metal complex 683
Triethyleneglycoldivinylether 641
Trifluoroacetic acid 395
Trimellitimide 661
1,3-Trimethylene carbonate 649
Triphenylamine 167
Tryptophan 395
TSDC peaks 117

UHMWPE 433

Vinyl acetate 411
Vinyl ether monomers 237
Vinyl polymers 425
4-Vinylbenzoic acid 497
Vinylbenzyloxazoline 535
4-Vinylpyridine 337
4-Vinyltriphenylamine 167

Water soluble polymers 449
Wear rate 433
Weathershed materials 717
Williamson ether synthesis 527

Zircocene catalysts 301
Zirconium(IV) acetylacetonate 131